

IN THE CLAIMS:

Kindly replace the claims of record with the following full set of claims:

1.-9. (Cancelled)

10. (Currently amended) A receiver for a digital signal, the receiver comprising:

one or more filters that are configured to filter an input signal to obtain a processed signal, wherein the one or more filters include:

an input filter; and

a double tuned band-filter;

a decoder that is configured to determine a digital figure of merit from the processed signal; and

a controller that is configured to determine ~~adjust~~ a center frequency of at least one of the one or more filters by determining a point of inflection of said ~~in dependence on the~~ digital figure of merit by:

incrementally adjusting said center frequency in a first direction;

determining a degradation in said figure of merit;

incrementally adjusting said center frequency in a second direction;

determining a degradation in said figure of merit; and

adjusting said center frequency in said first direction, wherein a center frequency of each of said other filters is held stationary.

wherein the one or more filters include:

—— an input filter; and

—— a double tuned band-filter.

11. (Previously presented) The receiver of claim 10, further including:

a pre-amp that is configured to operably couple the input filter to the band-filter,
and

a mixer that is configured to generate an IF signal from an output of the band-filter, wherein, the decoder is configured to receive the IF signal and to produce therefrom a digital output signal and the figure of merit.

12. (Cancelled)

13. (Currently amended) A method comprising:

receiving an RF input signal,
filtering the RF input signal via one or more RF filters to provide a filtered RF signal,
mixing the filtered RF signal with an oscillator signal to provide an IF signal,
demodulating the IF signal to provide a digital output signal and a figure of merit associated with the digital output signal, and
adjusting at least one filter of the one or more RF filters based on the figure of merit by:

incrementally adjusting said center frequency in a first direction;

determining a degradation in said figure of merit;

incrementally adjusting said center frequency in a second direction;

determining a degradation in said figure of merit; and

adjusting said center frequency in said first direction, wherein said center frequency of each of said other RF filters is held stationary.

14. (Cancelled)

15. (Currently amended) The method of claim [[14]] 13, further including: adjusting a center frequency of another filter of the one or more RF filters.

16. (Currently amended) The method of claim [[15]] 13, wherein the adjusting of the center frequency of the at least one filter and the another filter occur sequentially.

17. (Previously presented) The method of claim 13, further including: adjusting another filter of the one or more RF filters.

18. (Previously presented) The method of claim 17, wherein the adjusting of the at least one filter and the another filter occur sequentially.

19. (Previously presented) The method of claim 18, wherein the adjusting of the at least one filter and the another filter are based on a first control signal and a second control signal that are each independently determined based on first and second sequences of figures of merit.

20. (Previously presented) The method of claim 13, wherein the figure of merit includes a bit-error rate.